

Cracklin' Static

February 2021 Edition



**Zoom Virtual
meeting this
month See page
4....**

SNARS NET on DMR – Tuesday 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury Closing Balances As of 1/30/2021

Operating	\$7,745
Savings	\$11,017
Self Insurance	\$10,309
PayPal	\$1,207
Convention	\$4,295
Total	\$34,573

Net Monthly	-\$388
Net YTD	-\$388

Memberships 19

Money Donations

AmazonSmile	\$0
Members	\$69
PayPal Giving Fund	\$1
Total Donations	\$70

SNARS Membership as of 1-31-21

Extra	147	34%
General	143	33%
Technician	121	29%
Advanced	15	3%
No License	0	0%
License Expired	2	0%
Novice	1	0%
Total	429	

SNARS ARRL Members

Regular	245	57%
Life	41	10%

PRESIDENT'S VOICE

President John Byerly, N7ROJ

Email: mtnlion@gmail.com



Hello everyone!

I hope you all are finding things to keep busy and entertained during our winter with the latest bunch of storms that blew through last week. I decided to go portable Saturday and give Winter Field Day a try.

I took my Lab599 TX-500 QRP transceiver, a borrowed Chameleon F-Loop, my Surface Pro, and my LiFEPO4 battery with foldable solar panels out for some fun QRP portable. I decided on Peavine Mountain about halfway up the road to the peak. The road didn't seem too bad with my truck, right until I went past the old mine where there is a switchback to the left and UP-HILL. I wound up sliding down into a snowbank and promptly getting stuck. Fast forward an hour and a half, and I self ex-

tracted and continued up to my desired point.

After getting set up and on the air, I was able to use FT8, JS8CALL, and Winlink VARAHF mode to make a bunch of digital contacts, and send messages. I even made a few SSB contacts. It was fun and nice to get out. While it wasn't a DXpedition, it was very satisfying to take the gear into the field and actually do well and have effective communications with 10 watts.

I highly recommend giving it a shot. I am really enjoying QRP portable operations, and building my skills and toolkit, should the need ever arise for a real deployment.

Ham radio Zoom night was very popular. It seemed people had a good time. We had people who were there to help, and people who wanted to learn or have questions answered. There were rooms for different topics so that you could keep on whichever track you needed or were interested in. I think it will become a very effective tool for helping each other. It is great to have somewhere to go for help. Especially when we can't all get together as a group in person.

On that subject, we are still going to have to keep meeting using Zoom for our monthly member's meetings as well. I know we all miss being able to get together, and all of the cancelled events of the last year, but it's the only way to stay safe for now. The board continues to monitor the situation, and as soon as we can start meetings, we will. The plan will be to also provide the meeting on Zoom for people who cannot or don't wish to meet in person. Stay tuned for more as the pandemic situation develops.

I hope to see you all on our monthly meeting, and if you get the chance, try Ham radio zoom night. Help, get help, or just hang out virtually. Until next time....

73 John/N7ROJ



PO BOX 7727 Reno NV 89510
 Yearly Dues: \$40.00 Individual • \$50.00 Family
 775.453.4142 <http://snars.org>

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 Vice-President.....John Miller N7JDM
 Treasurer.....Bill Jones, AE7OX
 Secretary.....Anthony Marcin, W7XM
 DirectorWes Vick, KG7QXE
 DirectorJim Shepherd, W6US
 DirectorBarry Bettman, K6ST

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Cracklin StaticHowie Holden, WB2AWQ
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 Control OperatorPat Sheehan, W7DED
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Cracklin Static Publication

Editor: Howie Holden WB2AWQ - holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online



Online



Offline



Not Linked

Thank you to our Sponsors/Supporters



Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newslite	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Weak Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

SNARS Weekly DMR Net – Tuesdays
8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

SNARS Board Meeting Wednesday, 6:00PM
February 10, Location and mode TBD

HAM RADIO NIGHT on Zoom February 15, 7:00 PM
 see <https://snars.org/hamradionight/>

Next months SNARS Breakfast Meeting – Mar 6
Location and media mode tentative depending on Board decision and local restrictions.

WELCOME NEW MEMBERS

As of 1-31-21

David	Gordon	KJ7TFS
Daniel	Reese	KN6KKA
Derrick	DeLong	KK6HJH
Arthur	Barkley	K7DTI
James	Hussey	KJ7TIR
Dawn	Rickabaugh	KG6REU
Steve	Johnston	KJ7TEX
Paul	Davis	KJ7TCU
Richard	Benscoter	KJ7TDB
Thomas	Payne	KJ7TCV
Scott	Heidorn	WL7CQV
Rita	Heidkamp	WL7CQW
Blaine	Bovee	KF7HOH
John	Stafford	KD7PKP
John	Roskey	KJ7TCX

SNARS Virtual Monthly Meeting

SNARS (virtual on zoom conferencing) Monthly Meeting on
Saturday 2-6-21 8:00a PST

TOPIC: ICOM
IC-705 New Radio
Review



TO REGISTER go to:

<https://zoom.us/meeting/register/tJltde-uqzsuGNQl5115rann5gdb442CDMOu>

Any questions, email Barry k6st@arri.net

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

THIRD MONDAYS

The inaugural Third Monday Zoom session was held this last month. Almost 40 hams attended and participated, and a lot of questions were answered and discussed.

After some introductions and a quick presentation on how the different rooms worked, we split up into various classrooms to discuss some of the myriad facets of ham radio. The initial Main Room was handled by Barry K6ST who could direct traffic to the various topics and help with Zoom problems.

The Digital VHF/UHF room had Tony W7XM covering any and all topics related to DMR and Fusion radios. Discussions involved codeplugs and how to get them from our website as well as some basics on how to program your own. There was interest in the various channels and how to get to some of them as well as how to get more information if you are headed out of the area.

Wes KG7QXE ran the Analog VHF/UHF section which was a good place for new hams to get started. They talked about repeaters, nets, and general operations on our analog repeater systems. Programming, the use of CTCSS tones, repeater splits, and simplex contacts were also items that were covered during this session.

The popular world of text based digital HF operations was chaired by our President, John N7ROJ who helped with using the WSJT-X program and other modes like RTTY, PSK, etc. The digital modes have been the biggest growth area in HF operations for the last few years, and there were lots of interest in how to set up stations and participate.

For more general HF discussions including antennas, Jim W6US was on the HF room. We discussed getting started on HF, a little about contesting, but the biggest interest was about antennas. Tuning various antennas, balun use, common mode current suppression, and stealth (HOA) antennas were popular items that we talked about

during the session. Howie WB2AWQ talked about CW use and his experiences living in a CC&R and HOA regulated community.

There were a few spare rooms that could be used for further breakouts, but they were not used this month. These could be used for one-on-one Elmering if needed.

As sessions finished up, we all went back to the Main room with Barry K6ST and checked out from there. Barry followed up with a questionnaire which is reported elsewhere in this issue.

This format worked well. There have been several participants that have reached out to me with further questions since then, and hopefully the other presenters have also seen similar results. The whole idea behind these sessions is to establish more Elmering in the ham community in this area. We just scratched the surface of topics and there are huge areas that could be explored. There are lots of hams out there that are doing things like moonbounce, microwaves, medium and low frequency experiments, balloons, APRS, Winlink, satellites, VHF weak signals, meteor scatter, etc, etc, and I would be nice for them to come on to these Third Monday sessions and provide some help.

We are trying to develop a database of hams in the club that have knowledge in some of these specialty areas and are willing to help others get started. There is a whole lot more to ham radio than just talking on a repeater with a handheld. Helping others get into some of these other areas of ham radio is a good way to increase the knowledge base.

The next session will be on Monday, February 15 at 7pm. It will be announced on the Noon Net and the sign up information will be posted on the SNARS website. See you there!

(Ed. Note: Register for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) 2-15-2021 7:00p PT

<https://zoom.us/meeting/register/tJcsdeyqqz8qHt1ZPjmrEfghieZ4HkVcly0->)

MIKE'S MISSIVES CHAPTER FIFTY FOUR

Mike Katz, N7MSK

FCC Part 97.....§97.315 Certification of external RF power amplifiers.

(a) Any external RF power amplifier (see §2.815 of the FCC Rules) manufactured or imported for use at an amateur radio station must be certificated for use in the amateur service in accordance with subpart J of part 2 of the FCC Rules. No amplifier capable of operation below 144 MHz may be constructed or modified by a non-amateur service licensee without a grant of certification from the FCC.

(b) The requirement of paragraph (a) does not apply if one or more of the following conditions are met:

(1) The amplifier is constructed or modified by an amateur radio operator for use at an amateur station.

(2) The amplifier was manufactured before April 28, 1978, and has been issued a marketing waiver by the FCC, or the amplifier was purchased before April 28, 1978, by an amateur radio operator for use at that operator's station.

(3) The amplifier is sold to an amateur radio operator or to a dealer, the amplifier is purchased in used condition by a dealer, or the amplifier is sold to an amateur radio operator for use at that operator's station.

(c) Any external RF power amplifier appearing in the Commission's database as certificated for use in the amateur service may be marketed for use in the amateur service.

SHORT TAKES (By Jim Shepherd W6US)

Contest Calendar

The State QSO Party season kicks off with two States and a Canadian Province this weekend. Vermont and Minnesota as well as British Columbia are holding their contests and expect to hear a bunch of stations on the air. South and North Carolina will have theirs on the 27th and 28th also. The CQ WW RTTY WPX contest is on the 13-14th. For the brass pounders, the ARRL DX contest is on the 20th and 21st. You can get the full information about these and other contests at <https://www.contestcalendar.com/contestcal.html>

DX

There are lots of other stations who might be on the air from their home QTH operating as they are in the same situation

that we are with Covid19. There are some operations starting to pick up. Togo, Wake Island, Cayman Island, Monaco, and Sint Maarten are some of the featured ones this month. More information can be found at <https://www.ng3k.com/Misc/adxo.html>

Third Monday ZOOM Ham Radio Night

We will see the return of our popular Ham Radio Nights via ZOOM to get your questions answered. It will be held at 7pm. Register for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) 2-15-2021 7:00p PT

<https://zoom.us/meeting/register/tJcsdeyqqz8qHt1ZPjmrEfgheZ4HkVcly0->)

NAME THAT RIG

(Answer on page 9)



YOUTH INVOLVEMENT

School Club Roundup



more than 6 hours in a 24-hour period, and a maximum of 24 hours of the 107 hour event.



About School Club Roundup

Dates- February Session: February 8th - 12th, 2021

There are two School Club Roundups during each school year in October and February. Each 5-day event runs Monday through Friday from 1300 UTC Monday through 2359 UTC Friday. A station may operate no

More Info on ARRL School Club Roundup
<http://www.arrl.org/school-club-roundup>

73,

Barry K6ST - k6st@arrl.net
Nevada Section Youth Coordinator
ARRL (American Radio Relay League) www.arrl.org

The national association for amateur radio

ARES NEWS

Mark your calendar 9/15-9/19 2021 is the schedule for the **Reno Air Races** unless it is cancelled because of COVID.

We help with security, checking passes of people going to the PITS which where the race teams prepare the planes for their races or checking passes of people going into the grandstands.

If you want FREE access to the Air Races, I have two options:

For full access to everywhere the public goes including free parking, help with 16 hours volunteer time and you will be able to **attend any time during the week.**

Many times, we help with security the entire week so you can spread the 16 hours over several days.

The second option, for people that cannot put in 16 hours of volunteer time, volunteer four hours, you can get a **one-day pass**, full access to the race including parking.

Anyone over 18 can help, you do not have to be a Ham or a member of ARES.

Just contact me Bob WA6MTY and I will keep you up to date. Wa6mty@GBIS.COM

Washoe County ARES Emergency Coordinator,
Bob Miller, WA6MTY
WA6MTY@wcares.us
Tel (775) 843-5952

W7SSB's FUN STUFF

VOA (Voice of America)

is one of the few things our government started with good intentions.

Please go through the VOA website and read about the history and programs.

<https://www.insidevoa.com/p/5829.html>



VOA Transmitter Facility Dixon CA ca 1952



VOA 100KW transmitter Dixon CA ca 1952



VOA antennas Dixon CA ca 1952

HISTORICAL RADIO BOOKS

Recently came across a website that contains many historical books on Radio and Electronics. These two websites are:

https://www.qsl.net/va3iul/Files/Old_Radio_Frequency_Books.htm

and <https://www.qsl.net/va3iul/>

(Editor's note: also see <https://worldradiohistory.com/>)

WHY QRP WORKS

<http://qrpschool.com/soapbox/why-qrp-works/>

Do you think life is too short for QRP? Then you don't understand the math!

Cutting your power by a factor of 4 only causes a decrease of 1 S-Unit for the receiving station...

https://www.youtube.com/watch?reload=9&v=pn1mmATXPU0&feature=emb_logo



The Discovery TX-500 SDR QRP Transceiver covering 160 through 6 meters



It would be hard to use your 100W Transceiver in this environment.....

FUN STUFF FOR FEBRUARY

February has 4 ARRL/NCJ sponsored contests, shown in **BOLD**, and there are four state QSO parties: Vermont, Minnesota, and North and South Carolina (none listed here, see the ARRL link below for dates and details.)

6 Feb 0001 to 7 Feb 2359 **28 10-10 International Winter Contest**
www.ten-ten.org

6 Feb 2300 to 7 Feb 0300 **3.5-14 North American Sprint, CW SPC**
www.ncjweb.com

8 Feb 1300 to 12 Feb 2359 **All, no WARC ARRL School Club Round-up CW Ph** www.arrrl.org/school-club-roundup

13 Feb 0000 to 14 Feb 2359 **3.5-28 CQ WW RTTY WPX Contest Dig**
www.cqwxrtty.com

20 Feb 0000 to 21 Feb 2359 **1.8-28 ARRL International DX Contest, CW** www.arrrl.org/arrrl-dx

26 Feb 2200 to 28 Feb 2200 **1.8 CQ 160-Contest, SSB Ph**
www.cq160.com Meter

27 Feb 1800 to 28 Feb 0559 **3.5-28 North American QSO Party, RTTY**
www.ncjweb.com

28 Feb 1400 to 3 Mar 0800 **1.8-144 Classic Exchange, CW**
www.classicexchange.org

For full details, visit the websites, and for other contests see:
<http://www.arrrl.org/files/file/Contest%20Corral/2021/February%202021%20Corral.pdf>

If you're not into contests, there's always DX to chase! We're still seeing the effects of Covid-19, and the pickin's are slim so I listed all that's on the calendar!

Feb 11 to Feb 20	Togo	5VDE
Feb 15 to Feb 28	Wake I	KH9
Feb 20 to Mar 05	Cayman Is	ZF2BJ
Feb 24 to Mar 02	Monaco	3A
Feb 27 to Mar 27	Sint Maarten	PJ7AA

Check <https://www.ng3k.com/Misc/adxo.html> for updates on DXpeditions to make sure they're still a go!

RENO QRP SLOW SPEED CW NET

NEXT NET SESSION WILL BE TUESDAY, February 9, 2021 at 11:00 AM local. Target frequency is 7.045 MHz, if busy search somewhere near that frequency.

**THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT
NAME ,RST, LOCATION, RIG, POWER, ANTENNA.**

SNARS - Sierra Nevada Amateur Radio Society, Inc—<http://snars.org>

REMEMBER TO INCLUDE RST IN YOUR REPORT

Feel free to add something else in your exchange.

Take some time to report RST for other OP's or anything else that comes to mind.

Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.
Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.
73/72 Ed/WD7Y

NAME THAT RIG (from page 6)

In the 50s and 60s **Technical Material Corp**, Mamaroneck NY was known primarily for their commercial short wave equipment. They made such beasts as the FRT-xx series all mode HF transmitters in power levels from 1KW to 200KW, the FRR-60 Receiver, and lots of accessories for the commercial and military field. These were complex, synthesized radios, way above the average Amateur budget and ability to maintain. And yet they advertised in QST. They did make two Amateur class receivers, the **GPR-90**, shown on page 6, and the solid state GPR-92. The **GPR-90** looks suspiciously like some Hammarlund receivers, due to **TMC** having "stolen" some engineers from Hammarlund. The **GPR-90** was not synthesized, but was a dual conversion general receiver (above 14 Mhz) with bandspread for the ham bands. It covered 2 to 31.5 Mhz, and used 17 tubes. It was considered quite good for its era, although it was no better than a good Collins or a top line Hallicrafters receiver. It sold for about \$700 in the day (1955 to 1960), a bit above the competition. But it WAS very well made. The **GPR-90** is fairly rare, and dedicated TMC collectors are loathe to let them go.

WHERE'S THE CLUB GAVEL??

When we get back to breakfast meetings (hopefully soon) the president is going to need it to silence the QRM.



SNARS (MONTHLY) ZOOM HAM RADIO TECH NIGHT

3rd Monday of each month at 7PM PT



Our first ELMER+ Ham Radio Night of 2021 was a great success on Monday Jan 18th. We had 37 registrants with 34 attendees on zoom conferencing. In the beginning we met together and shared each of our individual goals.

We then went into smaller breakout groups of
HF / modes
Analog VHF/UHF
DMR/Fusion
Digital, FT-8, WSPR, JS8CALL

Each participant could move themselves around to different breakout topics to enjoy.

In the post survey feedback, the results showed:

How would you rate your experience to the ELMER+ Ham Radio Night (scale of 1 least to 10 most)

10	62%
9	11%
8	27%
1-7	0%
9	Average

What did you learn?

- *I learned about proper procedure, some tips on local repeaters, additional simplex channels beside the national calling freqs, and was even able to do my first transmit as a ham during the breakout.
- *Pretty cool.
- *I learned about how to access or fusion repeater and how to guide the repeater to the room you want.
- *Some radio terms
- *more on FT-8 set up
- *Tons I have pages of notes. Brand new to HAM radio so these Elmers were treasure troves of information.
- *Op techniques, handy gps and sound card dongles, js8call etc
- *TNTC.....too numerous to count. I'm a total beginner w/ no hands on experience despite passing General
- *More about repeaters, a bit of simplex, some information on online testing, and I was able to put faces to names previously hear on nets.
- *Acquired a tremendous amount of knowledge on HF, Analog and DMR
- *More about Raspberry Pi & digital modes
- *I have programming radios for over 30 years

General info on 2 meter radios

- *Information on repeaters, transmitting, Equipment, It was well done, Thanks
- *Good info about code plug offerings from Snars and hotspot recommendations.
- *With Elmers you have a vast knowledge of information to draw from.
- *Good basic info. Lots of people had the same questions so it was good
- *That there is a lot to learn
- *How to complete setting up my antenna ☑
- *Overall how DMR worked
- *How to use my radio on a repeater.
- *Reviewed information for tech level. Sorry, earthquake occurred towards end

What else do you want in future events?

- *I need to learn more about setting up my shack. Also, since I got licensed for Tech and General at the same time, I need to start looking at HF.
- *Antennas for home use in HOA residential area, HF and low profile UHF/VHF antennas
- *D-star, ARES
- *CW orientation?
- *FLDIGI, DMR
- *Parts list and DIY builds for 20m long wires. Intro to nets. Protocol and procedures.
- *More on DMR, HF & digital
- *More ft8
- *More of the same.....availability and free form session
- *Basic antennas. HF (I didn't make that a priority this time). Antenna tuners. ARES/RACES.
- *Hotspots, pros and cons on different types of radios, HF and DMR
- *Various
- *More meeting
- *Antennas, QSOs on 2 meter simplex and logging, 2 meter contesting
- *Not sure yet
- *How to build your first Ham Shack, help with Antenna tuning
- *Raspberry pi hacks for dmr deep dive and other areas of ham radio, antenna hacks, maybe arduino hacks for different ham projects also.
- *Maybe specific information on operating particular types of radios.
- *My specific interest is backcountry travel as a tech. How have others used their lic to be prepared for an emergency? Type of radio and antenna, how to research and test repeaters in advance and other advice, tips and tricks.
- *Tony did a wonderful job explaining stuff, maybe more tutorial on how to move into/ out of zoom rooms
- *Continued troubleshooting in getting my signal clear, and also getting mobile
- *I believe continued topics are good

Comments, anything else you want to share?

- *Great job! Thank you for the Zoom meeting. I learned a lot and look forward to attending future sessions.
- *More stuff on digital modes (dstar, allstar, NXDN ect. Steve-K7WBY would have a lot of info on his Nevada Hub, and he'd make a great presenter.

(Continued on pg 11)

SNARS (MONTHLY) ZOOM HAM RADIO TECH NIGHT (Cont'd from pg 10)

- *A good start, hope word catches on. Might be a good idea to give info on the Elmer/ham night to all license applicants.
- *I really appreciate all the effort and time you spent.
- Tony talked about ADVANCED methods of CPS, export/import tools on Telegram so see about more of CPS items for the DMR breakout
- *Excellent. Time well spent
- *Thanks to all the Elmers as well as the participants who felt free to ask their questions w/o fear of being humbled by their/my ignorance.
- *The meeting was well run. Participants were courteous.
- *All the Elmer's were more than eager to answer my questions
- *Very nice
- *A list post the news letter of Elmers that can help DMR, Pistar and other areas of ham radio
- *You guys have a good team and truly want to help new hams. I'm enjoying being involved in SNARS. What a great hobby!!!!
- *Great turnout and good information exchanged.
- *It was a great meeting. Huge thanks to Tony for DMR help and everyone who put the meeting together!

*SNARS repeater net is amazing. I would be interested in helping maintain if it is a need.

*Thank you

*Thank you

*Thought it was great, Tony was great in his presentation and in answering questions.

*I'm not sure if there is a survey feature, but that would help to maximize time by addressing major desire of the group first.

For future ELMER+ sessions, I want:

58% Get Help

8% Give Help

32% Both Get Help & Give Help

If you have any questions or would like to be of service as an Elmer, please contact K6ST Barry k6st@arri.net

Feel free to register for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) 2-15-2021 7:00p PT

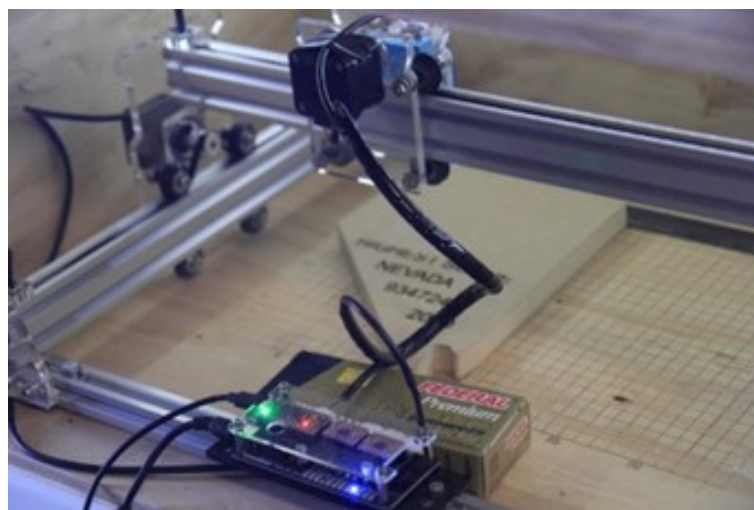
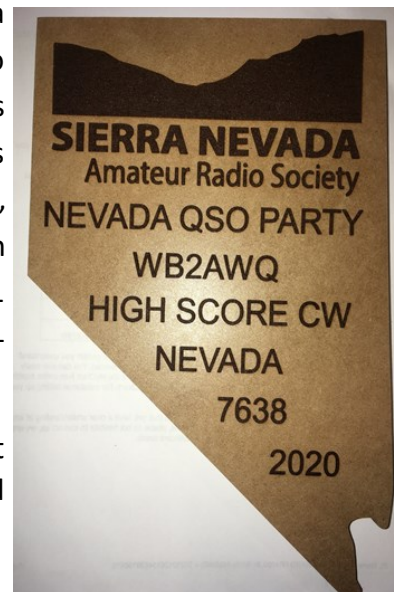
<https://zoom.us/meeting/register/tJcsdeyqqz8qHt1ZPjmrEfghieZ4HkVcly0->

NVQP REDUX

Jim Shepherd, W6US, who, besides being on the board of SNARS and involved with a lot of SNARS projects, also heads up the NV QSO PARTY. This year Jim took the time to make some very handsome plaques for the winners in various categories (so long as they met various criteria!) of NVQP. The featured photo is of my plaque, which was delivered in person by Jim. The other photos are of the six plaque recipients' plaques, and a photo of a plaque in progress. Jim used a 5 watt laser and a small X-Y table, with an appropriate computer program. Each plaque took a while to make, and is made of 1 inch thick laminate, with a special surface lamination into which the information is engraved.

The winners of these plaques are: Low Power Mixed Out of State: KG7OR, Highest Score Out of State: N6MU, High Power Mixed Out of State: K9RS, Low Power Mixed Nevada: K7XC, Highest Score Nevada: K2RD, High Score CW Nevada: WB2AWQ

A very handsome plaque indeed! Thank you Jim!





Board of Directors Meeting Minutes

January 13, 2021 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	NP	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Bill Jones, AE7OX	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P	Doug Edmondo, W7DBE	P		

Guest(s) In attendance:

2. Approval of Minutes - Discussion/Action

A. The board approved the December meeting minutes

3. Approval of Agenda - Discussion/Action

A. The board approved the agenda

4. Reports

A. President's Report – Still dealing with COVID restrictions, working on ideas for a club event of some kind for when we can meet. Note the link back to Davidson is running.

B. Secretary Report – No report

C. Treasurer

Net Monthly \$466 Net YTD \$6,681, Renewals 15

a. Financial Report – as of December 31, 2020: Checking: \$8,052 Savings: \$ 10,942 Paypal: \$1,301

Conv: \$ 4,295 Self-Ins: \$10,159

b. 2020 Donations

1. Amazon:	\$155
2. Members:	\$652
3. PayPal:	\$107
4. Total:	\$914

Bill sent the board a proposed budget and included monies for repeater work.

D. Technical Team – Continued work on a plan for equipment upgrades

E. Control Operators / Trustee – No report

F. Events – Suggestions and status

Thanks to Jim for getting the good area of Washoe State park for 2021 Field Day
Barry suggesting a Ham swap at Cabella's and or a Fox unit.

G. Education & Youth Activities

Kids Day – small group activities. Noted that Mellissa KJ7TCR is the new communications manager for NV Energy.
Good turnout for the Elmering event

H. Noon Net - New NCO Michael Moore AF6A working well

5. Old Business

A. Members Only Website – No update
in person monthly meetings – No news

6. New Business

A. See above – discussions on a club event when we can.

7. Director and Public Comments

John B – Try and open meetings up for Zoom to make it more like a club meeting.

John M. - Happy about Field Day; need one more band pass filter

Wes V. - Looking forward to tech night / Elmering

Barry – Happy to help with events; Looking for speakers, Likes the Hybrid meeting approach when we can get back together

Jim S. - Most work finished on NV QSO awards, Looking for help for Field Day, Note the Ham Radio event Monday and maybe some Zoom training prior

Bill J. - Switch Zoom to one year membership to save 20-30%

Public – Doug likes the small event ideas. Mentioned what he did with South Washoe CERT at Galena – HT training for CERT Hams and propagation tests on simplex.

8. Adjournment - Action

A. Next Meeting: February 10, 2021. Location TBD

B. Adjourned 1840 hours.